203 North Golden Circle Orive Santa Ana, CA 92705 (714) 835-6886 (213) 581-7164 Fax: (714) 667-7147

Telex: 68-3420

Woodward-Clyde Consultants

18 April 1990 Project No. 8941863J

Mr. Ejigu Solomon Regional Water Quality Control Board Los Angeles Region 101 Centre Plaza Drive Monterey Park, California 91754

SUBJECT: "ONE-TIME DISCHARGE" OF TREATED GROUNDWATER AT DOUGLAS AIRCRAFT COMPANY'S TORRANCE (C5) FACILITY

Dear Mr. Solomon:

Woodward-Clyde has recently completed carbon adsorption treatment of approximately 22,000 gallons of groundwater pumped from an onsite observation well at the subject facility during aquifer testing. The water is presently stored in two transportable steel storage tanks. Water samples were collected from each of the tanks and submitted to West Coast Analytical Service, Inc. of Santa Fe Springs, California on 6 April 1990 for analysis of volatile organics by EPA Method 624. Copies of the chemical data sheets are attached. The results show that the water does not contain detectable concentrations of volatile organics.

On behalf of Douglas Aircraft Company, Woodward-Clyde requests permission to discharge this water to a Los Angeles County Flood Control District storm drain per our telephone conversation of 27 March 1990.

Please call me at 714 824-6886 if you have any questions.

Very truly yours,

WOODWARD-CLYDE CONSULTANTS

Alistaire Callender Ph.D.

Project Manager

AC: kp

(2k/AC/RWOCB1)

Consulting Engineers, Geologists and Environmental Scientists

Offices in Other Principal Cities



April 12, 1990

RECEIVED.

APR 1 6 1990

WOODWARD-CLYDE CONSULTANTS 203 N. Golden Circle Dr. Santa Ana, CA 92705

WCC-SANTA ANA

WEST COAST ANALYTICAL SERVICE, INC.

ANALYTICAL CHEMISTS

A

MALITIOAL CILLIDIA

Attn:

Dr. Alistaire Callender

JOB NO.

15200

LABORATORY REPORT

Samples Received: Two (2) Water Samples in Duplicate

Date Received: 4-6-90

Purchase Order No: Proj#: 8941863J-0003/Douglas Aircraft

The samples were analyzed as follows:

Samples Analyzed

Analysis

Results

Two (2) waters

Volatile Organics by

EPA 624

Data Sheets

Page 1 of 1

Michael Shelton Technical Director D. J. Northington, Ph.D.
President

9840 Alburtis Avenue • Santa Fe Springs, California 90670 • 213/948-2225 • FAX 213/948-5850

CLIENT: WOODWARD-CLYDE CONSULTANTS SAMPLE: T-1438A

WCAS JOB #: 15200

DATE RECEIVED: 04/06/90
DATE EXTRACTED: 04/11/90
DATE ANALYZED: 04/11/90 RUN NUMBER: 15200V1 SAMPLE AMOUNT: 5ML

MATRIX: WATER

VOLATILE ORGANICS (EPA 624/8240) UNITS: UG/L (PPB)

CAS # COMPOUND CONCENTRATION DET LIMIT			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
71-43-2 BENZENE ND 1. 75-27-4 BROMODICHLOROMETHANE ND 1. 75-27-2 BROMOFORM ND 1. 75-28-2 BROMOFORM ND 1. 78-93-3 2-BUTANONE (MEK) ND 5. 75-15-0 CARBON DISULFIDE ND 1. 75-15-0 CARBON DISULFIDE ND 1. 75-00-3 CHLOROSETHERE ND 1. 75-00-3 CHLOROSETHERE ND 1. 75-00-3 CHLOROFORM ND 1. 74-87-3 CHLOROMETHANE ND 5. 74-87-3 CHLOROFORM ND 1. 1.0-75-8 2-CLICROGENTYLVINYL ETHER ND 1. 74-87-3 CHLOROMETHANE ND 5. 74-87-3 CHLOROMETHANE ND 1. 108-41-8 CHLOROMETHANE ND 1. 124-48-1 DIBROMOCHLOROMETHANE ND 1. 124-48-1 DIBROMOCHLOROMETHANE ND 1. 154-173-1 1,3-DICHLOROBENZENE ND 1. 106-46-7 1,4-DICHLOROBENZENE ND 1. 106-46-7 1,4-DICHLOROBENZENE ND 1. 107-06-2 1,2-DICHLOROSETHANE ND 1. 155-34-3 1,1-DICHLOROSETHANE ND 1. 156-59-4 CIS-1,2-DICHLOROSTHYLENE ND 1. 156-69-4 CIS-1,2-DICHLOROSTHYLENE ND 1. 156-69-5 TRANS-1,2-DICHLOROFOPENE ND 1. 156-60-5 TRANS-1,2-DICHLOROFOPENE ND 1. 100-41-4 ETHYLENE CHLORIDE ND 1. 100-41-4 ETHYLENE DIBROMIDE ND 1. 100-42-5 STYRENE ND 1. 109-99-9 METHYLENE CHLORIDE ND 5. 109-99-9 TETRANHOROFURAN ND 5. 109-99-9 TETRANHOROFURAN ND 5. 109-99-9 TETRAHUROFURAN ND 5. 109-99-9 TETRAHUROFURAN ND 5. 109-90-6 1,1,2-TICHLOROSTHANE ND 1. 109-90-6 TRANS-1,2-TICHLOROSTHANE ND 1. 109-90-9 TETRAHUROFURAN ND 5. 109-90-9 TETRAHUROFURAN ND 1. 109-90-9 TETRAHUROFURAN ND 1. 109-90-9 TETRAHUROFURAN ND 5. 109-90-9 TETRAHUROFURAN ND 1. 109-90-9 TETRAHURO	CAS #	COMPOUND	CONCENTRATION	DET LIMIT
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1,4-DICHLOROETHANE		1,3-DICHLOROBENZENE		
107-06-2		1,4-DICHLOROBENZENE		
1,2-DICHLOROETHANE		1,1-DICHLOROETHANE		
1,1-DICHLOROETHYLENE		1,2-DICHLOROETHANE		
156-59-4		1,1-DICHLOROETHYLENE		
TRANS-1, 2-DICHLOROETHYLENE		CIS-1,2-DICHLOROETHYLENE		
1,2-DICHLOROPROPANE	156-60-5	TRANS-1,2-DICHLOROETHYLENE		
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71-55-6 1,1,1-TRICHLOROETHANE ND 1. 79-00-5 1,1,2-TRICHLOROETHANE ND 1. 79-01-6 TRICHLOROETHYLENE ND 1. 75-69-4 TRICHLOROFLUOROMETHANE ND 1. 108-05-4 VINYL ACETATE ND 1. 75-01-4 VINYL CHLORIDE ND 5.			ND	5.
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92-47-6 'I'O'I'AT. YVT FNTC	·			
	95-47-6	TOTAL XYLENES		

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT:

WOODWARD-CLYDE CONSULTANTS SAMPLE: T-1438A

WCAS JOB #: 15200

UNITS: UG/L (PPB)

APPROXIMATE

COMPOUND NAME

FRACTION CONCENTRATION

1 NONE FOUND

VOA

CLIENT: WOODWARD-CLYDE CONSULTANTS SAMPLE: T-31NA

WCAS JOB #: 15200

DATE RECEIVED: 04/06/90 DATE EXTRACTED: 04/11/90

RUN NUMBER: 15200V2 SAMPLE AMOUNT: 5ML

MATRIX:

WATER

VOLATILE ORGANICS (EPA 624/8240)

DATE ANALYZED: 04/11/90

UNITS: UG/L (PPB)

	, , , , , , , , , , , , , , , , , , , ,	ONITS: OG/ H (PPB)	
CAS #	COMPOUND	CONCENTRATION	DET LIMIT
67-64-1	ACETONE	========= ND	5.
71-43-2	BENZENE	ND	
75-27-4	BROMODICHLOROMETHANE		1.
75-25-2	BROMOFORM	ND	1.
74-83-9	BROMOMETHANE	ND	1.
78-93-3	2-BUTANONE (MEK)	ND	5.
75-15-0	CARBON DISULFIDE	ND	5.
56-23-5	CARBON TETRACHLORIDE	ND	1.
108-90-7	CHLOROBENZENE	ND	1.
75-00-3	CHLOROETHANE	ND	1.
110-75-8	2-CHLOROETHYLVINYL ETHER	, ND	5.
67-66-3	CHLOROFORM CHLOROFORM	ND	10.
74-87-3	CHLOROFORM	ND	1.
108-41-8		ND	5.
124-48-1	CHLOROTOLUENE	ND	1.
95-50-1	DIBROMOCHLOROMETHANE	ND	1.
541-73-1	1,2-DICHLOROBENZENE	ND	1.
106-46-7	1,3-DICHLOROBENZENE	ND	1.
	1,4-DICHLOROBENZENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
107-06-2	1,2-DICHLOROETHANE	ND	1.
75-35-4	1,1-DICHLOROETHYLENE	ND	1.
156-59-4	CIS-1,2-DICHLOROETHYLENE	ND	1.
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	ī.
78-87-5	1,2-DICHLOROPROPANE	ND	ī.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
100-41-4	ETHYLBENZENE	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
76-13-1	FREON-TF	ND	
119-78-6	2-HEXANONE	ND ND	<u>1.</u>
75-09-2	METHYLENE CHLORIDE		5.
108-10-1	4-METHYL-2-PENTANONE (MIBK)	ND	5.
100-42-5	STYRENE	ND	5.
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	1.
127-18-4	TETRACHLOROETHYLENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	1.
108-88-3	TOLUENE	ND	5.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
79-00-5	1,1,2-TRICHLOROETHANE	ND	1.
79-01-6	TRICHLOROETHYLENE	ND	1.
75-69-4		ND	1.
108-05-4	TRICHLOROFLUOROMETHANE	ND	1.
75-01-4	VINYL ACETATE	ND	5.
95-47-6	VINYL CHLORIDE	ND	5.
73-47-0	TOTAL XYLENES	ND	1.
		-	_ -

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT:

WOODWARD-CLYDE CONSULTANTS

SAMPLE: T-31NA

WCAS JOB #: 15200

UNITS: UG/L (PPB)

APPROXIMATE

COMPOUND NAME

FRACTION CONCENTRATION

1 NONE FOUND

VOA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—LOS ANGELES REGION

101 CENTRE PLAZA DRIVE MONTEREY PARK, CALIFORNIA 91754-2156 (213) 266-7500



KECEIVED

May 7, 1990

MAY 8 1990

Mr. Daniel Palacios Environmental Compliance Douglas Aircraft 3855 Lakewood Boulevard Long Beach, CA 90846 WCC-SANTA ANA

ONE-TIME DISCHARGE OF TREATED GROUND WATER TO STORM DRAIN AT DOUGLAS AIRCRAFT COMPANY'S C6 TORRANCE FACILITY (I.D.# 905020025), 19503 SOUTH NORMANDIE AVENUE, TORRANCE, CA

We have reviewed a letter dated April 18, 1990 requesting permission to discharge treated ground water, collected during aquifer testing, to the storm drain. In review of your request, and the included water analysis, we have the following comments:

Woodward-Clyde Consultants provided this Regional Board with the aquifer test analysis. According to this analysis, none of the constituents exceeded the Department of Health Services' Action Levels. Based on this effluent analysis, permission is conditionally granted to discharge treated effluent to the storm drain.

The discharge shall be limited to the approximate 22,000 gallons currently stored on-site. The discharger shall submit a report summarizing discharge operations to this Board by June 11, 1990. If discharge conditions change, this Board must be notified for further review and approval before discharging. Any permit that may be required by a local agency shall be obtained prior to any discharge.

If you have any questions, please contact me at (213) 266-7522.

HANK H. YACOUB

Supervising Water Resource

too his Mahalaria

Control Engineer

cc: Mr. Gary Yamamoto, Department of Health Services, Sanitary Engineering Branch

Mr. Carl Sjoberg, County of Los Angeles, Department of Public Works, Underground Tank Unit

VDr. Alistaire Callender, Woodward-Clyde Consultants

203 North Golden Circle Drive Santa Ana, CA 92705 ·714) 835-6886 ·213) 581-7164

Woodward-Clyde Consultants

Fax: (714) 667-7147 Telex: 68-3420

21 May 1990 Project No. 8941863J

Mr. Rudolph Lee
Tenth Floor Permit Unit
Mapping and Property Management Division
Los Angeles County Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803-1331

SUBJECT: DISCHARGE OF TREATED GROUNDWATER AT DOUGLAS AIRCRAFT COMPANY'S FACILITY AT 19503 S. NORMANDIE AVE., TORRANCE, CALIFORNIA

Dear Mr. Lee:

This letter serves as a request to discharge approximately 22,000 gallons of groundwater generated during aquifer testing activities. The water, which contained low levels (<200 ug/l) of volatile organic compounds, was treated using activated carbon. The California Regional Water Quality Control Board, Los Angeles Region has granted permission for the discharge under a "One-Time Discharge" (see attached letter), since treatment of the water has reduced the concentrations of organics to below detectable concentrations.

We propose to discharge the water at a rate of 5 to 10 gallons per minute to a catch basin located on Douglas Aircraft Company's facility at 19503 S. Normandie Ave., Torrance, California. The catch basin is connected to the Dominguez flood control channel via storm drain.

Please call me at (714) 835-6886 with your comments and/or approval.

Very truly yours,

WOODWARD-CLYDE CONSULTANTS

Alistaire Callender, Ph.D.

Project Manager

AC:kp Attachment

(2k/ABC/D-1a)

cc: Janet Bell, Douglas Aircraft Co.
Boramy Ith, Douglas Aircraft Co.
Dan Palacios, Douglas Aircraft Co.

Consulting Engineers, Geologists and Environmental Scientists

Offices in Other Principal Cities



203 North Golden Circle Drive Santa Ana, CA 92705 (714) 835-6886 (213) 581-7164

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30 May 1990 Project No. 8941863J

Mr. Rudolph Lee
Tenth Floor Permit Unit.
Mapping and Property Management Division
Los Angeles County Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803-1331

SUBJECT:

DISCHARGE OF APPROXIMATELY 22,000 GALLONS OF TREATED GROUNDWATER AT DOUGLAS AIRCRAFT COMPANY'S TORRANCE (C6) FACILITY

Dear Mr. Lee:

This letter serves to document my telephone conversation with you on 22 May 1990 concerning the discharge of the subject groundwater. Woodward-Clyde understands that no permit is required in addition to the permission granted by the Regional Water Quality Control Board in a letter dated 7 May 1990.

At your request, we have notified Ray Rodriguez of the Hydraulic Water Conservation Division of the forthcoming discharge. On 23 May 1990 Woodward-Clyde provided Mr. Rodriguez with the location of the drain which will be receiving this water. The discharge was scheduled to begin on 24 May 1990 but at Mr. Rodriguez request it was delayed until 30 May 1990.

Please call me if you have any questions (714) 835-6886.

Very truly yours,

WOODWARD-CLYDE CONSULTANTS

Alistaire Callender, Ph.D.

Project Manager

AC:kp

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cc: Boramy Ith, Douglas Aircraft Co. Dan Palacios, Douglas Aircraft Co.

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